

HISTORIC AMERICAN ENGINEERING RECORD

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Air Force Rocket Propulsion Laboratory,  
Test Stand 1-A (Building 8765)  
Edwards Air Force Base,  
Test Area 1-120, North end of Jupiter Boulevard  
Boron Vicinity  
Kern County  
California

HAER No. CA-236-R

David G. De Vries, photographer

November, 1997

Note: Photographs CA-236-R-1 through CA-236-R-22 are 8" x 10" enlargements from 4" x 5" negatives.

- CA-236-R-1 TEST STAND 1-A ENVIRONS, SHOWING WEST SIDE OF TEST STAND 1-A, RP1 COMBINED FUEL STORAGE TANK FARM BELOW WATER TANKS ON HILLSIDE TO LEFT, AND TEST STAND 1-B IN DISTANCE AT RIGHT. Looking east.
- CA-236-R-2 NORTH FRONT, FROM SUPERSTRUCTURE TO FLAME DEFLECTOR. Looking south southwest from Observation Post No. 1 (Building 8767).
- CA-236-R-3 DETAIL OF NORTH FRONT AND WEST SIDE, WITH SUPERSTRUCTURE, FROM NEAR OBSERVATION POST NO. 3. Looking south southeast from below.
- CA-236-R-4 DETAIL SHOWING FLAME DEFLECTOR. Looking southeast.
- CA-236-R-5 EAST SIDE, TEST STAND AND ITS SUPERSTRUCTURE.
- CA-236-R-6 EAST SIDE, SUPERSTRUCTURE.
- CA-236-R-7 SOUTH REAR. Looking northwest from corner of the Instrumentation and Control Building (Building 8762).
- CA-236-R-8 SOUTH REAR, SUPERSTRUCTURE. Looking north from deck.
- CA-236-R-9 WEST SIDE, TEST STAND AND SUPERSTRUCTURE. TEST STAND 1-B IN DISTANCE. Looking east.

EDWARDS AFB,  
AIR FORCE ROCKET PROPULSION LABORATORY,  
TEST STAND 1-A (Building 8765)  
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CA-236-R-10      DETAIL SHOWING THRUST MEASURING SYSTEM. Looking up from the test stand deck to east.

CA-236-R-11      DETAIL SHOWING ROLLING ENGINE DECK AND NORTHEAST TRUSS OF SUPERSTRUCTURE. Looking northeast.

CA-236-R-12      DETAIL SHOWING EAST SIDE OF THE OXYGEN AND HYDROGEN PRE-VALVE DECK (2ND LEVEL). Looking south.

CA-236-R-13      DETAIL SHOWING OXYGEN (LEFT) AND HYDROGEN (RIGHT) PRE-VALVES ON SECOND DECK OF SUPERSTRUCTURE, ABOVE THE ENGINE. Looking northwest.

CA-236-R-14      DETAIL SHOWING HYDROGEN (LEFT) AND OXYGEN (RIGHT) PRE-VALVES. Looking southeast.

CA-236-R-15      DETAIL SHOWING HYDROGEN (LEFT) AND OXYGEN (RIGHT) SPHERICAL TANKS ON RUN LINE DECK, THIRD LEVEL. DARK TONED PIPING IS THE FIRE EXTINGUISHING SYSTEM. Looking south southwest.

CA-236-R-16      DETAIL SHOWING LIQUID OXYGEN TANK FOURTEEN-INCH BALL VALVE. Looking southwest.

CA-236-R-17      DETAIL, FOURTEEN-INCH LIQUID OXYGEN BALL VALVE. Looking south southeast.

CA-236-R-18      CROWS NEST ATOP SUPERSTRUCTURE. Looking up from northeast corner of run line deck.

CA-236-R-19      TRAVELING CRANE ATOP SUPERSTRUCTURE, FROM RUN LINE DECK. Looking up to north northeast.

CA-236-R-20      DECOMMISSIONED HYDROGEN TANK IN FORMER LIQUID OXYGEN STORAGE AREA, BETWEEN TEST STAND 1-A AND INSTRUMENTATION AND CONTROL BUILDING. Looking northwest.

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CA-236-R-21 VALVES, GAUGES, AND SEVERAL TYPES OF LIGHTING ALONG ROAD AT SOUTH REAR OF TEST STAND 1-A. RP1 TANK FARM IN MIDDLE DISTANCE. Looking northeast.

CA-236-R-22 DETAIL, TWO LIGHTING TYPES AT REAR OF TEST STAND 1-A.

Note: Photographs CA-236-R-23 through CA-236-R-25 are 8" x 10" enlargements from 4" x 5" negatives. These views are photocopies of recent resin coated prints made from prints held at the Main Base History Office, Edwards Air Force Base, California. Photographers unknown. Dates and file numbers unknown except where indicated.

CA-236-R-23 "A CAPTIVE ATLAS MISSILE EXPLODED DURING THE TEST ON TEST STAND 1-A, 27 MARCH 1959, PUTTING THAT TEST STAND OUT-OF-COMMISSION. STAND WAS NOT REPAIRED FOR THE ATLAS PROGRAM BUT TRANSFERRED TO ROCKETDYNE AND MODIFIED FOR THE F-1 ENGINE PROGRAM."

CA-236-R-24 SATURN V F-1 ENGINE TEST FIRING ON TEST STAND 1A.

CA-236-R-25 "TEST STAND 1-A UTILIZED TO TEST THE ATLAS ICBM", CROPPED OUT: "DIRECTORATE OF MISSILE CAPTIVE TEST, EDWARDS AFB." Photo no. 11,371 57; G-AFFTC 15 OCT 57. Looking southwest from below the stand.

Note: Photographs CA-236-R-26 through CA-236-R-27 are 8" x 10" enlargements from 4" x 5" copy negatives of recent 8.5" x 11" photomechanical transfers. The transfers were created from 105 mm microfilms held in the architectural drawings archive at the facilities engineering office, Air Force Rocket Propulsion Laboratory, Edwards Air Force Base, California. The original source drawings were not available for off-site archival copy work. These drawings were made by the Ralph M. Parsons Company, 617 South Olive Street, Los Angeles, California, for the Air Force Flight Test Center, Edwards Air Force Base, California. The common drawing headers in all the title blocks are "Experimental Rocket Engine Test Station, Test Facility 1-A." followed by the specific titles given below. All drawings were approved for Headquarters, AFFTC on 10 February 1955.

EDWARDS AFB,

AIR FORCE ROCKET PROPULSION LABORATORY,  
TEST STAND 1-A (Building 8765)

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CA-236-R-26

"TEST STAND, STRUCTURAL, FOUNDATION PLAN."

Specifications No. ENG-04-353-55-72; Drawing No. 60-09-12; sheet 25 of 148; file no. 1320/76. Stamped: RECORD DRAWING - AS CONSTRUCTED. Below stamp: Contract no. 4338, no change.

CA-236-R-27

"TEST STAND; STRUCTURAL; SIDEWALL, NORTH WALL AND SOUTH WALL FRAMING ELEVATIONS." Specifications No. ENG-04-353-55-72; Drawing No. 60-09-12; sheet 27 of 148; file no. 1320/78. Stamped: RECORD DRAWING - AS CONSTRUCTED. Below stamp: Contract no. 4338, Rev. B; date: 15 April 1957.